

Figure 1

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices A_{max} and B_{max} .

Panel A shows the distribution for $n = 600$. The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 1800. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a peak frequency of approximately 9 at around 1200 non-zero elements.

Panel B shows the distribution for $n = 1200$. The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 3600. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a peak frequency of approximately 9 at around 2400 non-zero elements.

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